

CRF Errors Corrected by the STIC Systems Branch

1600

Serial Number:

09/672,725B

ENTERED

CRF Processing Date:

10/22/2002

Edited by:

Verified by:

(STIC staff)

☐

Changed a file from non-ASCII to ASCII

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

1652

☐

Edited a format error in the Current Application Data section, specifically:

☐

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included:

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☐

Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.

☐

Inserted mandatory headings, specifically: _____

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☐

Corrected an obvious error in the response, specifically: _____

OCT 25 2002

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

TECH CENTER 1600/2900

☐

Corrected an error in the Number of Sequences field, specifically: _____

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐

Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐

Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/672,725B

DATE: 10/22/2002

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Input Set : A:\PTO.AMC.txt

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TECH CENTER 1600/2900

4 <110> APPLICANT: Stocker, Penny J.
 5 Steimel-Crespi, Dorothy T.
 6 Crespi, Charles L.
 7 Rief, Timothy C
 8 Patten, Christopher J.

10 <120> TITLE OF INVENTION: P-GLYCOPROTEINS AND USES THEREOF
 13 <130> FILE REFERENCE: G0307/7017
 15 <140> CURRENT APPLICATION NUMBER: US 09/672,725B
 16 <141> CURRENT FILING DATE: 2000-09-28
 18 <150> PRIOR APPLICATION NUMBER: US 60/156,510
 19 <151> PRIOR FILING DATE: 1999-09-28
 21 <160> NUMBER OF SEQ ID NOS: 32
 23 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 4279
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Canis familiaris
 30 <220> FEATURE:
 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (17)...(3859)
 34 <400> SEQUENCE: 1

| | | |
|----|-------------------------------------------------------------------|-----|
| 35 | ggagcgcgag gtcggg atg gat cct gaa gga ggc cgt aag ggg agt gca gag | 52 |
| 36 | Met Asp Pro Glu Gly Gly Arg Lys Gly Ser Ala Glu | |
| 37 | 1 5 10 | |
| 39 | aag aac ttc tgg aaa atg ggc aaa aaa agt aaa aaa aat gag aag aaa | 100 |
| 40 | Lys Asn Phe Trp Lys Met Gly Lys Lys Ser Lys Lys Glu Lys Lys | |
| 41 | 15 20 25 | |
| 43 | gaa aag aaa cca act gtc agc acg ttt gca atg ttt cgc tat tca aat | 148 |
| 44 | Glu Lys Lys Pro Thr Val Ser Thr Phe Ala Met Phe Arg Tyr Ser Asn | |
| 45 | 30 35 40 | |
| 47 | tgg ctt gat agg ttg tat atg ttg gtg ggg aca atg gct gcc atc atc | 196 |
| 48 | Trp Leu Asp Arg Leu Tyr Met Leu Val Gly Thr Met Ala Ala Ile Ile | |
| 49 | 45 50 55 60 | |
| 51 | cat gga gct gca ctc cct ctc atg atg ctg gtt ttt gga aac atg aca | 244 |
| 52 | His Gly Ala Ala Leu Pro Leu Met Met Leu Val Phe Gly Asn Met Thr | |
| 53 | 65 70 75 | |
| 55 | gat agc ttt gca aat gca gga att tca aga aac aaa act ttt cca gtt | 292 |
| 56 | Asp Ser Phe Ala Asn Ala Gly Ile Ser Arg Asn Lys Thr Phe Pro Val | |
| 57 | 80 85 90 | |
| 59 | ata att aat gaa agt att acg aac aat aca caa cat ttc atc aac cat | 340 |
| 60 | Ile Ile Asn Glu Ser Ile Thr Asn Asn Thr Gln His Phe Ile Asn His | |
| 61 | 95 100 105 | |
| 63 | ctg gag gag gaa atg acc acg tat gcc tat tat tac agt ggg atc ggt | 388 |

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| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 64 | Leu | Glu | Glu | Glu | Met | Thr | Thr | Tyr | Ala | Tyr | Tyr | Tyr | Ser | Gly | Ile | Gly | |
| 65 | | 110 | | | | | 115 | | | | 120 | | | | | | |
| 67 | gct | ggc | gtg | ctg | gtg | gct | gct | tac | atc | cag | gtt | tca | ttc | tgg | tgc | ctg | 436 |
| 68 | Ala | Gly | Val | Leu | Val | Ala | Ala | Tyr | Ile | Gln | Val | Ser | Phe | Trp | Cys | Leu | |
| 69 | 125 | | | | | 130 | | | | 135 | | | | | 140 | | |
| 71 | gca | gca | gga | aga | cag | ata | ctc | aaa | att | aga | aaa | caa | ttt | ttt | cat | gct | 484 |
| 72 | Ala | Ala | Gly | Arg | Gln | Ile | Leu | Lys | Ile | Arg | Lys | Gln | Phe | Phe | His | Ala | |
| 73 | | | | | 145 | | | | 150 | | | | | | 155 | | |
| 75 | atc | atg | cga | cag | gag | att | ggc | tgg | ttt | gac | gtg | cat | gac | gtt | ggg | gag | 532 |
| 76 | Ile | Met | Arg | Gln | Glu | Ile | Gly | Trp | Phe | Asp | Val | His | Asp | Val | Gly | Glu | |
| 77 | | | | 160 | | | | | 165 | | | | | 170 | | | |
| 79 | ctt | aac | acc | cgg | ctc | aca | gac | gat | gtc | tcc | aaa | atc | aat | gaa | gga | att | 580 |
| 80 | Leu | Asn | Thr | Arg | Leu | Thr | Asp | Asp | Val | Ser | Lys | Ile | Asn | Glu | Gly | Ile | |
| 81 | | 175 | | | | | | 180 | | | | | 185 | | | | |
| 83 | ggc | gac | aaa | att | gga | atg | ttc | ttt | cac | tca | ata | gca | aca | ttt | ttc | acc | 628 |
| 84 | Gly | Asp | Lys | Ile | Gly | Met | Phe | Phe | His | Ser | Ile | Ala | Thr | Phe | Phe | Thr | |
| 85 | | 190 | | | | | 195 | | | | | 200 | | | | | |
| 87 | ggt | ttt | ata | gtg | ggg | ttt | aca | cgt | ggt | tgg | aag | cta | acc | ctt | gtg | att | 676 |
| 88 | Gly | Phe | Ile | Val | Gly | Phe | Thr | Arg | Gly | Trp | Lys | Leu | Thr | Leu | Val | Ile | |
| 89 | 205 | | | | | 210 | | | | 215 | | | | | 220 | | |
| 91 | ttg | gcc | atc | agc | cct | gtt | ctt | gga | ctt | tca | gcc | gcc | atc | tgg | gca | aag | 724 |
| 92 | Leu | Ala | Ile | Ser | Pro | Val | Leu | Gly | Leu | Ser | Ala | Ala | Ile | Trp | Ala | Lys | |
| 93 | | | | 225 | | | | | 230 | | | | | 235 | | | |
| 95 | ata | cta | tct | tca | ttt | act | gat | aaa | gaa | ctc | ttg | gcc | tat | gca | aaa | gct | 772 |
| 96 | Ile | Leu | Ser | Ser | Phe | Thr | Asp | Lys | Glu | Leu | Leu | Ala | Tyr | Ala | Lys | Ala | |
| 97 | | | 240 | | | | | 245 | | | | | 250 | | | | |
| 99 | gga | gca | gta | gct | gaa | gaa | gtc | tta | gca | gca | atc | aga | act | gtg | att | gcc | 820 |
| 100 | Gly | Ala | Val | Ala | Glu | Glu | Val | Leu | Ala | Ala | Ile | Arg | Thr | Val | Ile | Ala | |
| 101 | | | 255 | | | | | 260 | | | | | 265 | | | | |
| 103 | ttt | gga | gga | caa | aag | aaa | gaa | ctt | gaa | agg | tac | aac | aaa | aat | tta | gaa | 868 |
| 104 | Phe | Gly | Gly | Gln | Lys | Lys | Glu | Leu | Glu | Arg | Tyr | Asn | Lys | Asn | Leu | Glu | |
| 105 | | 270 | | | | | 275 | | | | | 280 | | | | | |
| 107 | gaa | gct | aaa | gga | att | ggg | ata | aag | aaa | gct | atc | acg | gcc | aac | att | tct | 916 |
| 108 | Glu | Ala | Lys | Gly | Ile | Gly | Ile | Lys | Lys | Ala | Ile | Thr | Ala | Asn | Ile | Ser | |
| 109 | 285 | | | | | 290 | | | | 295 | | | | | 300 | | |
| 111 | att | ggt | gcc | gct | ttc | tta | ttg | atc | tat | gca | tca | tat | gct | ctg | gct | ttc | 964 |
| 112 | Ile | Gly | Ala | Ala | Phe | Leu | Leu | Ile | Tyr | Ala | Ser | Tyr | Ala | Leu | Ala | Phe | |
| 113 | | | | | 305 | | | | 310 | | | | | 315 | | | |
| 115 | tgg | tat | ggg | acc | tcc | ttg | gtc | ctc | tcc | agt | gaa | tat | tct | att | gga | caa | 1012 |
| 116 | Trp | Tyr | Gly | Thr | Ser | Leu | Val | Leu | Ser | Ser | Glu | Tyr | Ser | Ile | Gly | Gln | |
| 117 | | | 320 | | | | | 325 | | | | | 330 | | | | |
| 119 | gta | ctc | act | gtc | ttc | ttt | tct | gta | tta | att | ggg | gct | ttt | agt | att | gga | 1060 |
| 120 | Val | Leu | Thr | Val | Phe | Phe | Ser | Val | Leu | Ile | Gly | Ala | Phe | Ser | Ile | Gly | |
| 121 | | | 335 | | | | | 340 | | | | 345 | | | | | |
| 123 | cag | gca | tcc | cca | agc | att | gaa | gca | ttt | gca | aac | gca | aga | gga | gca | gct | 1108 |
| 124 | Gln | Ala | Ser | Pro | Ser | Ile | Glu | Ala | Phe | Ala | Asn | Ala | Arg | Gly | Ala | Ala | |
| 125 | | 350 | | | | | 355 | | | | | 360 | | | | | |
| 127 | tat | gaa | atc | ttc | aag | ata | att | gac | aat | aaa | cca | agc | att | gac | agc | tat | 1156 |
| 128 | Tyr | Glu | Ile | Phe | Lys | Ile | Ile | Asp | Asn | Lys | Pro | Ser | Ile | Asp | Ser | Tyr | |

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| | | | | | | | | |
|-----|-----------------------------------------------------------------|------|-----|-----|-----|-----|-----|-----|
| 129 | 365 | | 370 | | 375 | | 380 | |
| 131 | tcg aag agt gga cat aaa cca gat aat att aag gga aat ttg gaa ttc | 1204 | | | | | | |
| 132 | Ser Lys Ser Gly His Lys Pro Asp Asn Ile Lys Gly Asn Leu Glu Phe | | | | | | | |
| 133 | | 385 | | 390 | | 395 | | |
| 135 | aaa aat gtt cac ttc agt tac cct tct cga aaa gaa gtt aag atc tta | 1252 | | | | | | |
| 136 | Lys Asn Val His Phe Ser Tyr Pro Ser Arg Lys Glu Val Lys Ile Leu | | | | | | | |
| 137 | | 400 | | 405 | | 410 | | |
| 139 | aag ggt ctc aac ctg aag gtt cag agt ggg cag aca gtg gcg ctg gtt | 1300 | | | | | | |
| 140 | Lys Gly Leu Asn Leu Lys Val Gln Ser Gly Gln Thr Val Ala Leu Val | | | | | | | |
| 141 | | 415 | | 420 | | 425 | | |
| 143 | ggg aac agt ggc tgc ggg aag agc acg acc gtg cag ctg atg cag agg | 1348 | | | | | | |
| 144 | Gly Asn Ser Gly Cys Gly Lys Ser Thr Thr Val Gln Leu Met Gln Arg | | | | | | | |
| 145 | | 430 | | 435 | | 440 | | |
| 147 | ctc tat gac ccc aca gat ggc atg gtc tgt att gat gga cag gac att | 1396 | | | | | | |
| 148 | Leu Tyr Asp Pro Thr Asp Gly Met Val Cys Ile Asp Gly Gln Asp Ile | | | | | | | |
| 149 | | 445 | | 450 | | 455 | | 460 |
| 151 | agg acc ata aat gta agg cat ctt cgg gaa att act ggt gtg gtg agt | 1444 | | | | | | |
| 152 | Arg Thr Ile Asn Val Arg His Leu Arg Glu Ile Thr Gly Val Val Ser | | | | | | | |
| 153 | | 465 | | 470 | | 475 | | |
| 155 | cag gag cct gtg ttg ttt gcc acc acg ata gct gaa aac att cgc tat | 1492 | | | | | | |
| 156 | Gln Glu Pro Val Leu Phe Ala Thr Thr Ile Ala Glu Asn Ile Arg Tyr | | | | | | | |
| 157 | | 480 | | 485 | | 490 | | |
| 159 | ggc cgc gaa aat gtc acc atg gat gag att gag aaa gct gtt aag gaa | 1540 | | | | | | |
| 160 | Gly Arg Glu Asn Val Thr Met Asp Glu Ile Glu Lys Ala Val Lys Glu | | | | | | | |
| 161 | | 495 | | 500 | | 505 | | |
| 163 | gcc aat gcc tat gat ttt atc atg aaa cta cct aat aaa ttt gac act | 1588 | | | | | | |
| 164 | Ala Asn Ala Tyr Asp Phe Ile Met Lys Leu Pro Asn Lys Phe Asp Thr | | | | | | | |
| 165 | | 510 | | 515 | | 520 | | |
| 167 | ctg gtt gga gag aga ggg gcc cag ctg agt ggt gga cag aaa cag aga | 1636 | | | | | | |
| 168 | Leu Val Gly Glu Arg Gly Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg | | | | | | | |
| 169 | | 525 | | 530 | | 535 | | 540 |
| 171 | atc gcc att gct cgg gcc ctg gtt cgc aac ccc aag att ctt ctg ctg | 1684 | | | | | | |
| 172 | Ile Ala Ile Ala Arg Ala Leu Val Arg Asn Pro Lys Ile Leu Leu Leu | | | | | | | |
| 173 | | 545 | | 550 | | 555 | | |
| 175 | gat gag gca acg tca gct ctg gac act gaa agt gaa gca gtg gtt cag | 1732 | | | | | | |
| 176 | Asp Glu Ala Thr Ser Ala Leu Asp Thr Glu Ser Glu Ala Val Val Gln | | | | | | | |
| 177 | | 560 | | 565 | | 570 | | |
| 179 | gtg gcc ctg gat aag gcc aga aaa ggc cgg act acc att gtg ata gct | 1780 | | | | | | |
| 180 | Val Ala Leu Asp Lys Ala Arg Lys Gly Arg Thr Thr Ile Val Ile Ala | | | | | | | |
| 181 | | 575 | | 580 | | 585 | | |
| 183 | cat cgt ttg tct aca gtt cgt aat gcc gat gtc att gct ggt ttt gat | 1828 | | | | | | |
| 184 | His Arg Leu Ser Thr Val Arg Asn Ala Asp Val Ile Ala Gly Phe Asp | | | | | | | |
| 185 | | 590 | | 595 | | 600 | | |
| 187 | gat gga gtc att gtg gag aaa gga aat cat gat gaa ctc atg aaa gag | 1876 | | | | | | |
| 188 | Asp Gly Val Ile Val Glu Lys Gly Asn His Asp Glu Leu Met Lys Glu | | | | | | | |
| 189 | | 605 | | 610 | | 615 | | 620 |
| 191 | aag ggc att tac ttc aaa ctt gtc aca atg cag aca aga gga aat gaa | 1924 | | | | | | |
| 192 | Lys Gly Ile Tyr Phe Lys Leu Val Thr Met Gln Thr Arg Gly Asn Glu | | | | | | | |
| 193 | | 625 | | 630 | | 635 | | |

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| | | |
|-----|-----------------------------------------------------------------|------|
| 195 | att gag tta gaa aat gcc act ggt gaa tcc aaa agt gaa agt gat gcc | 1972 |
| 196 | Ile Glu Leu Glu Asn Ala Thr Gly Glu Ser Lys Ser Glu Ser Asp Ala | |
| 197 | 640 645 650 | |
| 199 | ttg gaa atg tct cca aaa gat tca ggg tcc agt tta ata aaa aga aga | 2020 |
| 200 | Leu Glu Met Ser Pro Lys Asp Ser Gly Ser Ser Leu Ile Lys Arg Arg | |
| 201 | 655 660 665 | |
| 203 | tca act cgc agg agt ata cat gca cca caa ggc caa gac aga aag ctt | 2068 |
| 204 | Ser Thr Arg Arg Ser Ile His Ala Pro Gln Gly Gln Asp Arg Lys Leu | |
| 205 | 670 675 680 | |
| 207 | ggt aca aaa gag gac ttg aat gag aat gta cct cca gtt tcc ttc tgg | 2116 |
| 208 | Gly Thr Lys Glu Asp Leu Asn Glu Asn Val Pro Pro Val Ser Phe Trp | |
| 209 | 685 690 695 700 | |
| 211 | agg att ctg aag ctg aac tca act gaa tgg cct tat ttt gtg gtt ggt | 2164 |
| 212 | Arg Ile Leu Lys Leu Asn Ser Thr Glu Trp Pro Tyr Phe Val Val Gly | |
| 213 | 705 710 715 | |
| 215 | ata ttt tgt gct att ata aac gga ggc ctg caa cca gca ttt tca ata | 2212 |
| 216 | Ile Phe Cys Ala Ile Ile Asn Gly Gly Leu Gln Pro Ala Phe Ser Ile | |
| 217 | 720 725 730 | |
| 219 | ata ttt tca agg att ata ggg atc ttt acc cga gat gag gat cct gaa | 2260 |
| 220 | Ile Phe Ser Arg Ile Ile Gly Ile Phe Thr Arg Asp Glu Asp Pro Glu | |
| 221 | 735 740 745 | |
| 223 | aca aaa cga cag aat agt aac atg ttt tct gta ttg ttt cta gtc ctt | 2308 |
| 224 | Thr Lys Arg Gln Asn Ser Asn Met Phe Ser Val Leu Phe Leu Val Leu | |
| 225 | 750 755 760 | |
| 227 | gga att att tct ttt att aca ttt ttc ctc cag ggc ttc aca ttt ggc | 2356 |
| 228 | Gly Ile Ile Ser Phe Ile Thr Phe Phe Leu Gln Gly Phe Thr Phe Gly | |
| 229 | 765 770 775 780 | |
| 231 | aaa gct ggg gag atc ctc act aag cgg ctt cga tac atg gtt ttc aga | 2404 |
| 232 | Lys Ala Gly Glu Ile Leu Thr Lys Arg Leu Arg Tyr Met Val Phe Arg | |
| 233 | 785 790 795 | |
| 235 | tcc atg ctg aga cag gat gtc agc tgg ttt gat gac cct aaa aac acc | 2452 |
| 236 | Ser Met Leu Arg Gln Asp Val Ser Trp Phe Asp Asp Pro Lys Asn Thr | |
| 237 | 800 805 810 | |
| 239 | act gga gca ttg aca acc agg ctt gcc aat gat gcg gct caa gtt aaa | 2500 |
| 240 | Thr Gly Ala Leu Thr Thr Arg Leu Ala Asn Asp Ala Ala Gln Val Lys | |
| 241 | 815 820 825 | |
| 243 | ggg gct ata ggt tcc agg ctt gct gtc att acc cag aat ata gca aat | 2548 |
| 244 | Gly Ala Ile Gly Ser Arg Leu Ala Val Ile Thr Gln Asn Ile Ala Asn | |
| 245 | 830 835 840 | |
| 247 | ctt ggg aca ggc att att ata tcc tta atc tat ggt tgg caa tta aca | 2596 |
| 248 | Leu Gly Thr Gly Ile Ile Ile Ser Leu Ile Tyr Gly Trp Gln Leu Thr | |
| 249 | 845 850 855 860 | |
| 251 | ctt tta ctc tta gca att gta ccc atc att gca ata gca gga gtt gtt | 2644 |
| 252 | Leu Leu Leu Leu Ala Ile Val Pro Ile Ile Ala Ile Ala Gly Val Val | |
| 253 | 865 870 875 | |
| 255 | gaa atg aaa atg ttg tct gga caa gca ctg aaa gat aag aaa gag cta | 2692 |
| 256 | Glu Met Lys Met Leu Ser Gly Gln Ala Leu Lys Asp Lys Lys Glu Leu | |
| 257 | 880 885 890 | |
| 259 | gaa gga gct ggg aag att gct aca gaa gcc atc gaa aac ttc cga act | 2740 |

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| | | |
|-----|-----------------------------------------------------------------|------|
| 260 | Glu Gly Ala Gly Lys Ile Ala Thr Glu Ala Ile Glu Asn Phe Arg Thr | |
| 261 | 895 900 905 | |
| 263 | gtt gtt tct ttg act cgg gag cag aag ttt gaa tac atg tat gca cag | 2788 |
| 264 | Val Val Ser Leu Thr Arg Glu Gln Lys Phe Glu Tyr Met Tyr Ala Gln | |
| 265 | 910 915 920 | |
| 267 | agt ttg caa gta cca tac aga aac tct ttg agg aaa gca cac atc ttc | 2836 |
| 268 | Ser Leu Gln Val Pro Tyr Arg Asn Ser Leu Arg Lys Ala His Ile Phe | |
| 269 | 925 930 935 940 | |
| 271 | ggg gtc tca ttt tct atc acc cag gca atg atg tat ttt tcc tat gct | 2884 |
| 272 | Gly Val Ser Phe Ser Ile Thr Gln Ala Met Met Tyr Phe Ser Tyr Ala | |
| 273 | 945 950 955 | |
| 275 | ggc tgt ttc cgg ttt ggt gcc tac ttg gtg gca aat gag ttc atg aac | 2932 |
| 276 | Gly Cys Phe Arg Phe Gly Ala Tyr Leu Val Ala Asn Glu Phe Met Asn | |
| 277 | 960 965 970 | |
| 279 | ttt cag gat gtt ctt ttg gta ttc tca gct att gtc ttt ggt gcc atg | 2980 |
| 280 | Phe Gln Asp Val Leu Leu Val Phe Ser Ala Ile Val Phe Gly Ala Met | |
| 281 | 975 980 985 | |
| 283 | gca gtg ggg cag gtc agt tca ttt gct cct gac tat gcc aaa gcc aaa | 3028 |
| 284 | Ala Val Gly Gln Val Ser Ser Phe Ala Pro Asp Tyr Ala Lys Ala Lys | |
| 285 | 990 995 1000 | |
| 287 | gta tca gca gcc cac gtc atc atg atc att gaa aaa agc cct ctg att | 3076 |
| 288 | Val Ser Ala Ala His Val Ile Met Ile Ile Glu Lys Ser Pro Leu Ile | |
| 289 | 1005 1010 1015 1020 | |
| 291 | gac agc tac agc cct cac ggc ctc aag cca aat acg ttg gaa gga aat | 3124 |
| 292 | Asp Ser Tyr Ser Pro His Gly Leu Lys Pro Asn Thr Leu Glu Gly Asn | |
| 293 | 1025 1030 1035 | |
| 295 | gtg aca ttt aat gag gtc gtg ttc aac tat ccc act cga cca gac atc | 3172 |
| 296 | Val Thr Phe Asn Glu Val Val Phe Asn Tyr Pro Thr Arg Pro Asp Ile | |
| 297 | 1040 1045 1050 | |
| 299 | ccc gtg ctc cag ggg ctg agc ctc gag gtg aag aag ggc cag acg ctg | 3220 |
| 300 | Pro Val Leu Gln Gly Leu Ser Leu Glu Val Lys Lys Gly Gln Thr Leu | |
| 301 | 1055 1060 1065 | |
| 303 | gcc ctc gta ggt agc agt ggc tgt ggg aag agc aca gtt gtt cag ctc | 3268 |
| 304 | Ala Leu Val Gly Ser Ser Gly Cys Gly Lys Ser Thr Val Val Gln Leu | |
| 305 | 1070 1075 1080 | |
| 307 | cta gag cgc ttc tat gac ccc ttg gct ggt tca gtg cta att gat ggc | 3316 |
| 308 | Leu Glu Arg Phe Tyr Asp Pro Leu Ala Gly Ser Val Leu Ile Asp Gly | |
| 309 | 1085 1090 1095 1100 | |
| 311 | aaa gag ata aag cac ctg aat gtc cag tgg ctc cga gca cac ctg ggc | 3364 |
| 312 | Lys Glu Ile Lys His Leu Asn Val Gln Trp Leu Arg Ala His Leu Gly | |
| 313 | 1105 1110 1115 | |
| 315 | atc gtg tct cag gag ccc atc ctg ttt gac tgc agc att gcc gag aac | 3412 |
| 316 | Ile Val Ser Gln Glu Pro Ile Leu Phe Asp Cys Ser Ile Ala Glu Asn | |
| 317 | 1120 1125 1130 | |
| 319 | att gcc tat gga gac aac agc cgg gtc gta tca cat gaa gag att atg | 3460 |
| 320 | Ile Ala Tyr Gly Asp Asn Ser Arg Val Val Ser His Glu Glu Ile Met | |
| 321 | 1135 1140 1145 | |
| 323 | cag gca gcc aag gag gcc aac ata cac cac ttc atc gag aca ctc cct | 3508 |
| 324 | Gln Ala Ala Lys Glu Ala Asn Ile His His Phe Ile Glu Thr Leu Pro | |

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/672,725B

DATE: 10/22/2002
TIME: 19:21:19

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\10222002\I672725B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:28; N Pos. 1,2

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